

Appl. No. 09/644,390
Amdt. dated June 10, 2005
Reply to Office Action of March 16, 2005

IN THE CLAIMS

Please cancel claims 4-5 without prejudice, and amend claims 1 and 6 as set forth in the following listing of the claims.

1. (currently amended) A device for actuating a security device, preferably for securing a motor vehicle against unauthorized use, comprising: a control unit for actuating the security device, the control unit having means for transmitting a first coded electromagnetic signal (stimulus signal); a portable transmitter (radio key) having means for receiving the stimulus signal, and means for transmitting a second coded electromagnetic signal (enable signal) on a carrier frequency determined from the stimulus signal by the radio key; and wherein the control unit has a receiver tuned to the carrier frequency and actuates the security device if the enable signal is received by the receiver of the control unit and is recognized by the control unit, wherein the control unit and the radio key have means respectively for tuning said receiver of the control unit to said carrier frequency and for altering said carrier frequency of the second coded electromagnetic signal provided by the transmitting means of the radio key; and

wherein the radio key alters said frequency and the control unit correspondingly tunes its receiver during signal

transmission in a manner known only to the control unit and to the radio key; a manner in which the carrier frequency is to be changed is contained in the stimulus signal (1) as a coded information item for transmission to the radio key; and the stimulus signal (1) contains a random number and the carrier frequencies are determined by applying a cryptoalgorithm (3) to said stimulus signal (1) and, in this context, particularly to the random number contained in the stimulus signal (1).

2. (previously presented) The device as claimed in claim 1, wherein the radio key has a narrowband transmitter, transmission frequency of which is controllable and wherein the radio key alters its transmission frequency over intervals of time when transmitting signals.

3. (previously presented) The device as claimed in claim 2, wherein the tunable receiver of said control unit is a tunable narrowband receiver having the same frequency range as the transmitter in the radio key.

4. (Canceled)

5. (Canceled)

6. (Currently amended) The device as claimed in ~~claim 4~~ Claim 1, wherein selection of the carrier frequency at the receiver and transmitter ends is determined, using a coded information item, which includes said random number, in the stimulus signal, by means of a cryptographic method, operative with said cryptoalgorithm, in the radio key and in the control unit independently of one another.

7. (previously presented) The device as claimed in claim 1, wherein the signal transmission takes place over a spectrum of different carrier frequencies and wherein the enable signal contains a coded information item for modulating said spectrum.

8. (previously presented) The device as claimed in claim 7 wherein the transmission via different carrier frequencies constitutes frequency hopping.